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Spatial Filter Issues*

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Abstract

Measurements and calculations show that the maximum pressure at which the NIF spatial filters can be operated is about 10^{-3} Torr. Beam dumps to catch back reflections and PEPC leakage in the NIF architecture must be located in the pinhole regions of the spatial filters. Experiments and calculations to improve beam-dump lifetime and reduce the contamination of optics from ablation of the beam dumps will be presented.

(These issues may be adequately covered by the following papers in other sessions: "Maximum background pressure in spatial filters for high power lasers," J.E. Murray, D. Milam, W.D. Sell, K.G. Estrabrook, M.D. Feit, A.M. Rubenchik; "Maximizing lifetime and minimizing contamination from ablation for NIF beam dumps," M.A. Norton, J.E. Murray, C.D. Boley, D. Milam, W.D. Sell, M.D. Feit, A.M. Rubenchik.)

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